



THE PORT AUTHORITY
OF NY & NJ



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I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT
COPY OF ONE OF THE CONTRACT DRAWINGS, SEAL
SITING AS PART OF CONTRACT NO. WTC-945-071
IN THE FORM IN WHICH SAID DRAWINGS EXISTED
AT THE TIME THE SAID CONTRACT WAS EXECUTED BY
THE PARTIES.

DATE 11/16/98 *William A. Adam*
DATE 4/16/98 *FL*
ENGINEER OF DESIGN

| No. | Date | Revision | Approved |
|--|----------|------------------------------|----------|
| 1 | 12/12/97 | ADD SLAB OPENING AND SEC 1-F | |
| 2 | 11/17/97 | ISSUED FOR BID | |
| Engineering Department Design Divisions | | | |
| The World Trade Center | | | |

STANDBY POWER
5 WORLD TRADE CENTER

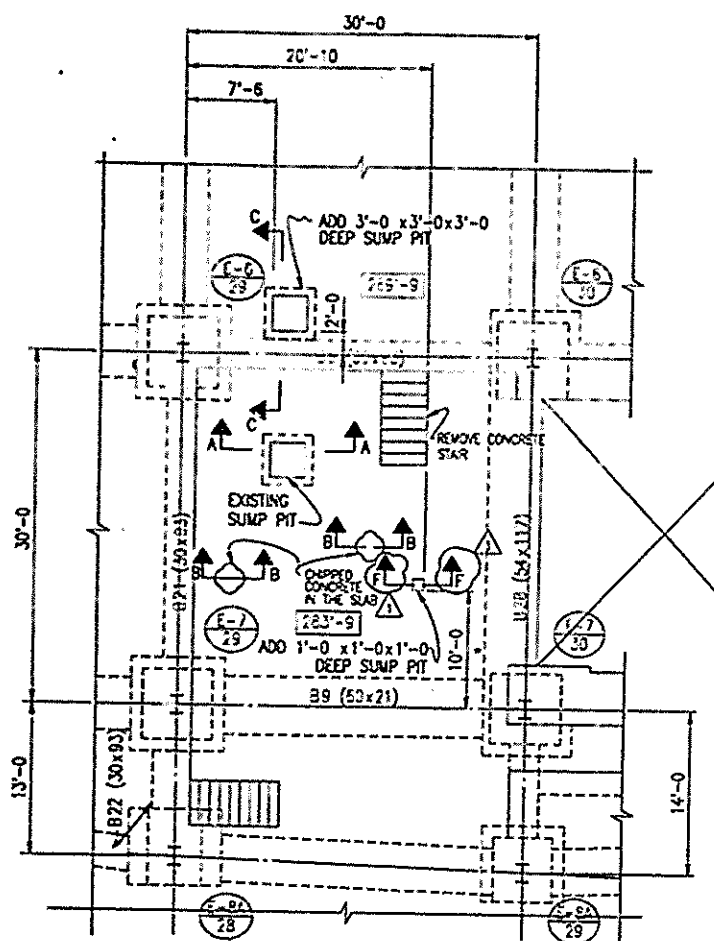
STRUCTURAL
5 WTC FUEL OIL SYS
FUEL OIL TANK
PART PLANS

This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent.

DESIGNED BY: MVS, BAZ, CAF, RZ
CHECKED BY:

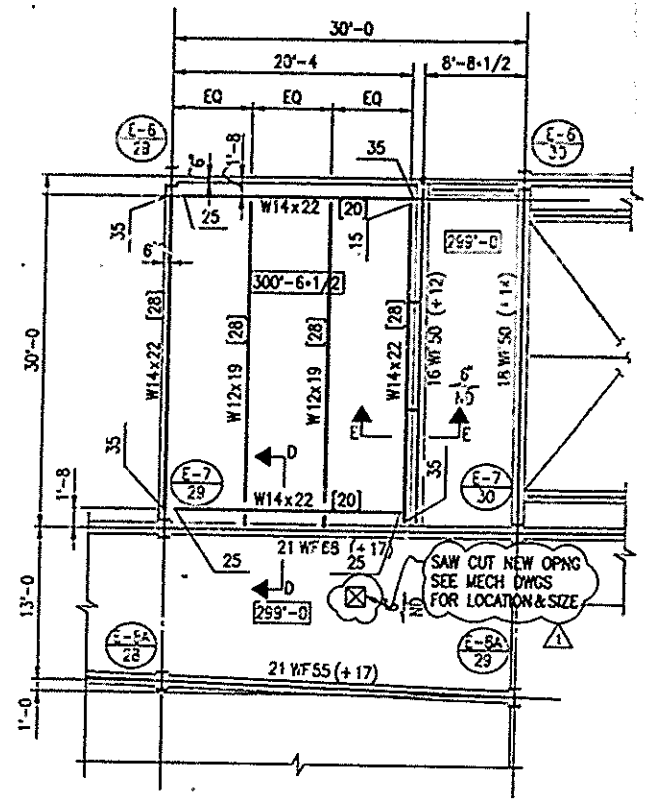
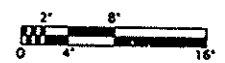
DATE: 11/17/97 SCALE: AS NOTED

CONTRACT NUMBER: WTC-945-071 DRAWING NUMBER: S3-01



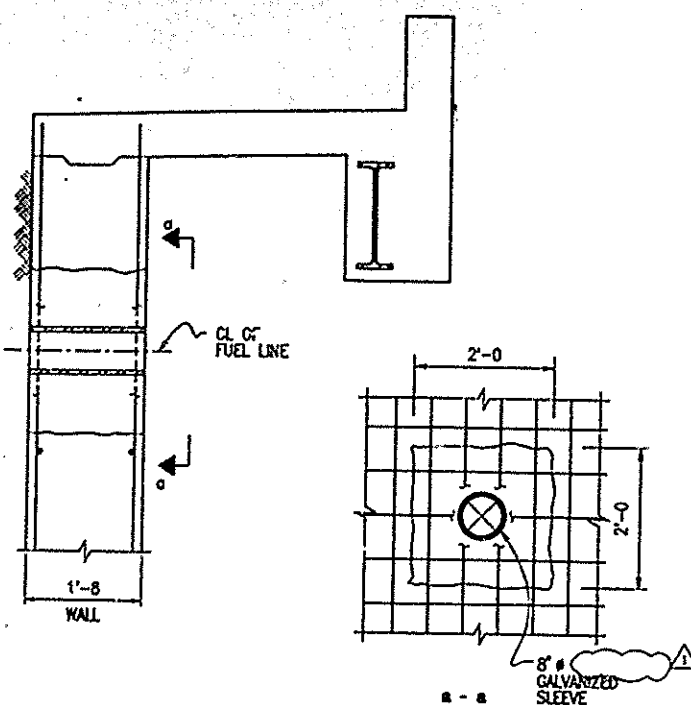
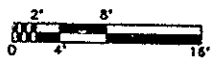
FUEL OIL TANK ROOM PLAN

REF EL (TOP OF FINISH) = 284'-0



FUEL OIL TANK ROOM ROOF PLAN

REF EL (TOP OF CONCRETE) = 300'-6-1/2

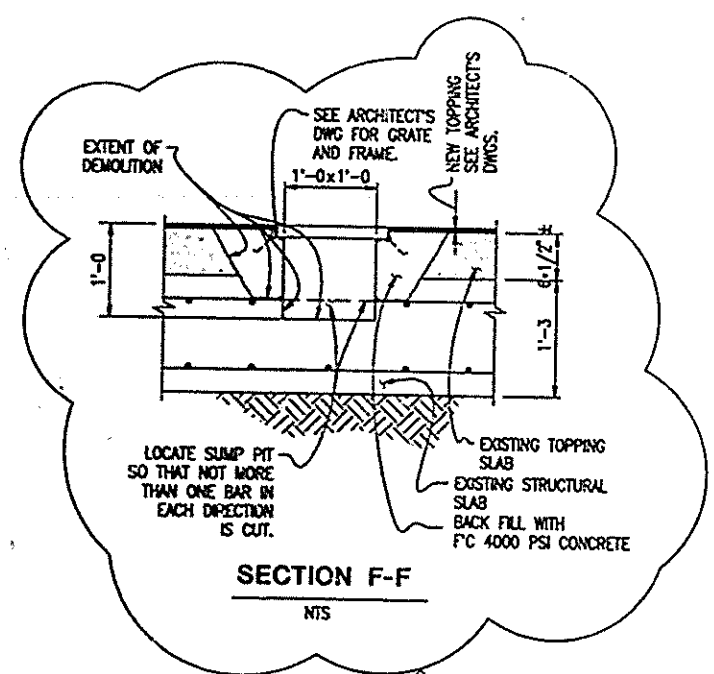


TYPICAL DETAIL FOR
FOUNDATION WALL PENETRATION FOR FUEL LINE

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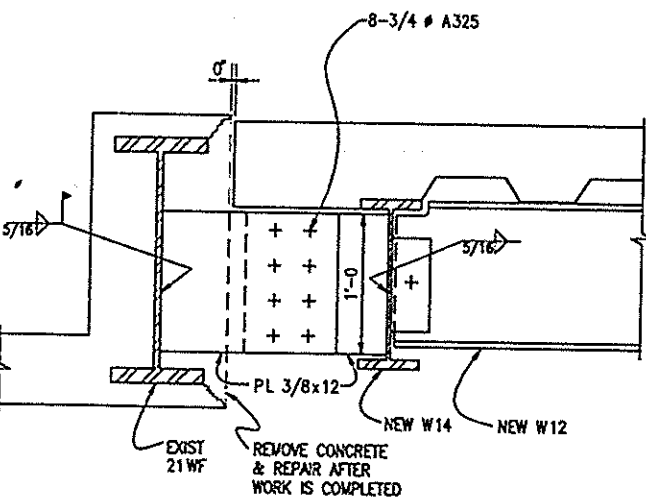
SEQUENCE FOR INSTALLATION OF 8" SLEEVE

1. CHIP CONCRETE (2'-0" x 2'-0"). DO NOT DAMAGE EXISTING REBAR.
2. LOCATE 8" SLEEVE TO MINIMIZE THE NUMBER OF REBAR INTERRUPTED BY SLEEVE. CUT INTERRUPTED REBAR.
3. BACKFILL AROUND SLEEVE WITH FC=4000 PSI CONCRETE PER THE FOLLOWING SEQUENCE:
 - ROUGHEN THE CONCRETE SURFACE;
 - CLEAN THOROUGHLY, REMOVE LATANCE;
 - APPLY EPOXY BONDING COMPOUND IMMEDIATELY BEFORE PLACEMENT OF CONCRETE ACCORDING TO MANUFACTURER'S INSTRUCTIONS; AND
 - POUR CONCRETE.



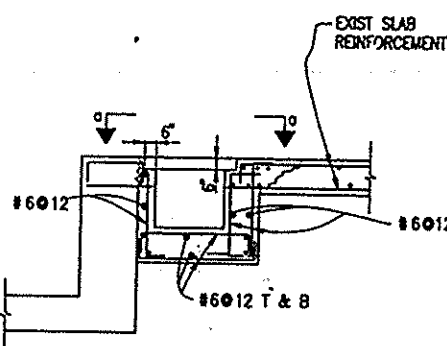
SECTION F-F

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SECTION D-D

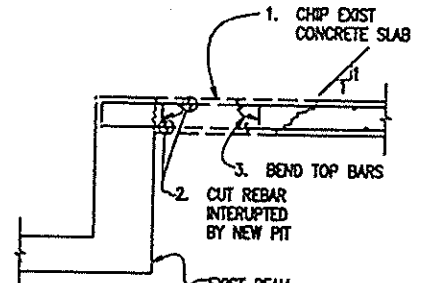
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SECTION C-C

NEW PIT CONSTRUCTION

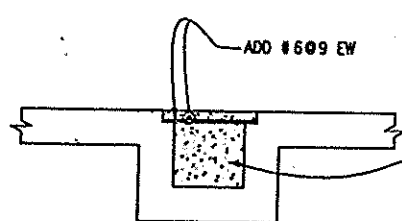
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SECTION C-C

CONCRETE REMOVAL

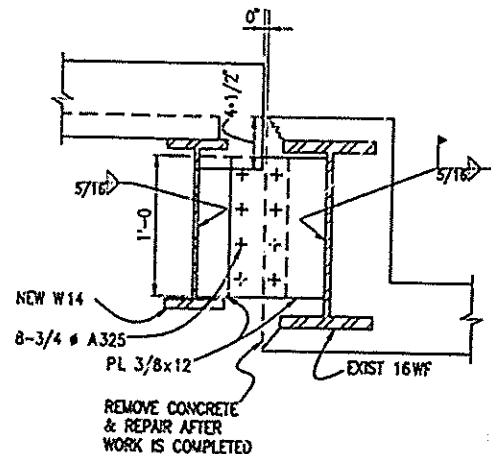
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SECTION A-A

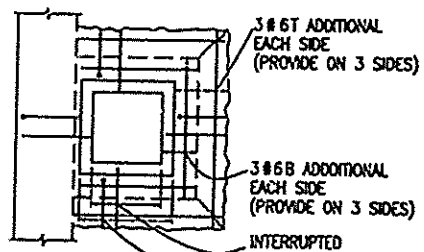
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- FILL WITH FC=4000 PSI CONCRETE PER THE FOLLOWING SEQUENCE:
1. ROUGHEN THE CONCRETE SURFACE.
 2. CLEAN THOROUGHLY, REMOVE LATANCE.
 3. APPLY EPOXY BONDING COMPOUND IMMEDIATELY BEFORE PLACEMENT OF CONCRETE ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 4. POUR CONCRETE.



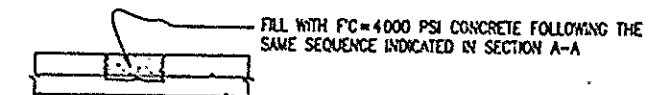
SECTION E-E

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SECTION B-B

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SECTION B-B

NTS

